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| |  |  | | --- | --- | | **Group 15** | | |  |  | | Yashaswani Naga Parnika Jonnalagadda | 002200684 | | Harshika Golkonda | 002831235 | | Sharan Kumar Prabhakaran | 002831828 | | Santosh Rayana | 002615054 |   **Event Management Systems** |

**Project Description:**  
The objective of the Event Management System (EMS) is to maximize the benefits of event preparation, execution, and analysis for all parties involved—organizers, attendees, sponsors, and service providers, among others. Numerous crucial functions, such as user registration, event execution, and feedback gathering, will be managed by the EMS. In order to ensure that the system meets the specific requirements of the event management business model, it will incorporate various entities and capture the intricate relationships between them. Additionally, it will follow best practices in database design.  
To improve data exchange and consumption, the EMS will use an Enhanced Entity-Relationship diagram to clearly visualize the database structure. The objective is to develop a data storage and retrieval system that satisfies the strategic requirements of the company and its clients while being dependable, efficient, and functional.

### Database Design:

1. User: This entity gathers vital data about every user in the system. A unique User ID and Username are among its properties. This object acts as the foundation for establishing system roles like Sponsor, Attendee, and Event Organizer.
2. **Organizer:** The organization in charge of organizing events maintains data about the people or businesses that organize and carry them out. Contact details, Name, and Organizer ID are instances of such attributes. Organizers are linked to Events and have the potential to oversee several events within the system.
3. **Event:** The actual events that are being controlled are represented by this primary object. It has foreign keys that relate to the organizer, venue, and event category in addition to an event ID, name, and description. Through registration and sponsorship partnerships, it may also establish links with other entities, such as the Sponsor and the Attendee.
4. **Attendee:** Users who sign up for and show up at events are called attendees. An Attendee ID, Name, and Contact details are all part of the Attendee entity. Through a Registration entity, which oversees the connection between Attendees and the Events they attend, this entity is connected to the Events.
5. **Sponsor:** Event sponsors give events cash or in-kind assistance. The Sponsor entity consists of a Name, Contact details, and Sponsor ID. The events that sponsors are supporting are indicated by links to the events.
6. **Service Provider:** This entity contains information about suppliers of different services for an occasion, like décor, audio-visual equipment, and food. A ServiceProvider ID, Name, Service Type, and Contact details are examples of attributes.
7. **Venue:** Details on the sites of events are stored by the Venue entity. A Venue ID, Name, Address, and Capacity are examples of attributes. Event planners must choose a location that is suitable for the event's size and kind.
8. **Event Category:** This object classifies events into different kinds, including workshops, conferences, and seminars. Along with a comprehensive description of the category's contents, it also has a Category ID and Name.
9. **Registration:** This organization is in charge of event attendee registration. A Registration ID, Attendee ID, Event ID, and Registration Date are all included. Tracking which Attendees have registered for particular events requires the use of this object.
10. **Ticket:** This organization is in charge of managing and selling event tickets. It has the following information: price, seat number (if applicable), ticket ID, event ID, and attendee ID.
11. **Feedback:** Following an event, participants are able to give comments. A Feedback ID, Event ID, Attendee ID, Comment, and Rating are all included in this object. The organizers can use this information to make future events even better.
12. **Session or Workshop:** A lot of events consist of several workshops or sessions. A Session ID, Event ID, Speaker ID, Title, and Description are all included in this entity. It connects Speakers and Events to particular Sessions.
13. **Speaker Profile:** This entity has details about the speakers who will be present at events. A Speaker ID, Name, Biography, and Expertise are examples of attributes. This aids in the attendees' understanding of the speakers'

backgrounds.   
  
  
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